

10.2 Simplify Rational Exponents

Objectives:

-Evaluate and rewrite expressions involving rational exponents.

Common Core Standards:

N.RN.1 - Explain how the definition of the meaning of rational exponents follows from extending the properties of integer exponents to those values, allowing for a notation for radicals in terms of rational exponents.

N.RN.2 - Rewrite expressions involving radicals and rational exponents using the properties of exponents.

Rational Exponents

-Rational exponents between the integers.
-Recall Exponent Properties

$$(b^{\frac{1}{2}})^2 = b^1 = b$$

$$(x^{\frac{2}{3}})^3 = x^2$$

Looking Ahead:

If 1/2 power is cancelled by squaring the term, how else could be be written?

Unit 09 Lesson 01 Rational Exponents

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Longman Active Maths 8 Khurana Rohit, 2009-09 **Jacaranda Maths Quest 11 Mathematical Methods Units 1&2 for Queensland, 2e learnON & Print** Sue Michell, 2024-11-19 The Jacaranda Maths Quest for Queensland series has been entirely updated for the revised Queensland Senior Syllabus Created by experienced Queensland teachers the new Maths Quest for Queensland series provides all the tools to help your students progress and achieve success **Roadmap to the California High School Exit Exam** Princeton Review (Firm), 2004-08 *Resources in Education*, 1980-09 [Index to Overhead Transparencies](#) National Information Center for Educational Media, 1975 **Eureka Math Algebra II Study Guide** Great Minds, 2016-08-15 The team of teachers and mathematicians who created Eureka Math believe that it is not enough for students to know the process for solving a problem they need to know why that process works That is why students who learn math with Eureka can solve real world problems even those they have never encountered before The Study Guides are a companion to the Eureka Math program whether you use it online or in print The guides collect the key components of the curriculum for each grade in a single volume They also unpack the standards in detail so that anyone even non Eureka users can benefit The guides are particularly helpful for teachers or trainers seeking to undertake or lead a meaningful study of the grade level content in a way that highlights the coherence between modules and topics We're here to make sure you succeed with an ever growing library of resources Take advantage of the full set of Study Guides available for each grade PK 12 or materials at eureka math org such as free implementation and pacing guides material lists parent resources and more **Teaching and Learning High School Mathematics** Charlene E. Beckmann, Denise R. Thompson, Rheta N. Rubenstein, 2009-11-02 Too many high school students faced with mathematics in courses at the level of algebra and beyond find themselves struggling with abstract concepts and unwilling to pursue further study of mathematics When students curtail their course taking in mathematics they may be impacting their college and career options Thus high school mathematics teachers have the responsibility to help students recognize the value and importance of mathematics while also designing instruction that makes mathematics accessible to all students Ball and Bass 2000 as well as other mathematics educators have recognized that mathematics teachers not only need to know mathematics content and mathematics pedagogy i.e. teaching strategies but they also need to know how these ideas are integrated This mathematical knowledge for teaching is the knowledge that teachers of mathematics need and it differs from the knowledge that research or applied mathematicians must know This text is designed to provide teachers with insights into this mathematical knowledge for teaching Teaching and Learning High School Mathematics is likely different from many other texts that you have used It integrates both content and pedagogy to help you develop and build your own understanding of teaching The text is designed to help you develop deep conceptual understanding of fundamental mathematics Ma 1999 so that you are able to approach mathematics from multiple perspectives with many tools Such flexibility in teaching is essential if teachers

are to help all students become mathematically proficient Throughout this book you are encouraged to work in cooperative teams This strategy is designed to help you develop a mathematics learning community and build a professional network that will be a valuable resource during your professional career Hopefully you will experience the benefits of engaging in rich mathematical discussions with peers and consider how to encourage such learning environments in your own classrooms Lesson planning is another element pervasive throughout this text To help teachers plan for effective student centered lessons the Question Response Support QRS Guide is introduced in Lesson 1 1 and used throughout the remainder of the lessons The QRS Guide is a tool on which teachers may record tasks or questions Q for students expected and observed student responses R and teacher support S in the form of additional just enough questions to support students in their progress on the task In each unit teachers expand their repertoire of teaching and learning elements and strategies and incorporate these elements as they plan additional lesson segments In Unit 4 lesson planning is formally introduced as teachers put together elements from previous units into complete cohesive lesson plans

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